

Substitute Claims

1. (currently amended) A message distribution center comprising:
an SMTP protocol communication channel to receive a short message
from a source of said short message;
a database having a plurality of subscriber queues accessed before delivery
to a wireless carrier's subscriber message delivery network and each corresponding to a
different subscriber in said wireless network, said short message being placed in at least
one of said plurality of subscriber queues before delivery to said wireless carrier's
subscriber message delivery network;
an assignment module to individually assign each of said plurality of
subscriber queues a maximum number of short messages that said plurality of subscriber
queues can store ~~based on historical short message usage of each relevant subscriber~~
~~queue~~;
an automatic deletion module to delete messages from said subscriber
queues when said maximum number is exceeded in order to make room in said database
for other messages; and
at least one of an RMI communication channel and an SMPP
communication channel to communicate said queued short message to said wireless
carrier's subscriber message delivery network.

2-3. (canceled)

4. (original) The message distribution center according to claim 1,
wherein:
each of said plurality of subscriber queues operates in a first in-first out
fashion.

5. (currently amended) The message distribution center according to claim
1, wherein:

said maximum number is a predetermined maximum number of short messages in each of said plurality of subscriber queues that is determined according to delivery statistics.

6. (previously presented) The message distribution center according to claim 1, wherein:

said wireless carrier's subscriber message delivery network is a wireless intelligent network (WIN).

7-16. (canceled)

17. (currently amended) A method of message distribution between a source of a short message and a wireless network including an intended recipient of said short message, said method of message distribution comprising:

receiving said short message from said source of said short message utilizing an SMTP protocol communication channel;

placing said short message in at least one of a plurality of subscriber queues of a subscriber database that are accessed before delivery to a wireless carrier's subscriber message delivery network, said plurality of subscriber queues each corresponding to a different subscriber in said wireless carrier's network;

individually assigning each of said plurality of subscriber queues a maximum number of short messages that said plurality of subscriber queues can store ~~based on historical short message usage of each relevant subscriber queue;~~

automatically deleting messages from said subscriber queues when said maximum number is exceeded in order to make room in said subscriber database for other messages; and

communicating said short message to said wireless carrier's subscriber message delivery network utilizing at least one of an RMI communication channel and an SMPP communication channel.

18-19. (canceled)

20. (previously presented) The method of message distribution according to claim 17, wherein:

each of said plurality of subscriber queues operates in a first in-first out fashion.

21. (previously presented) The method of message distribution according to claim 17, further comprising:

placing a predetermined maximum number of short messages in each of said plurality of subscriber queues that is determined according to delivery statistics.

22. (previously presented) The method of message distribution according to claim 17, wherein:

said wireless carrier's subscriber message delivery network is a wireless intelligent network (WIN).

23. (currently amended) An apparatus for message distribution between a source of a short message and a wireless network including an intended recipient of said short message, said apparatus for message distribution comprising:

means for receiving said short message from said source of said short message utilizing an SMTP protocol communication channel;

means for storing said short messages in a database that includes a plurality of subscriber queues;

means for placing' said short message in at least one of a plurality of said subscriber queues accessed before delivery to a wireless carrier's subscriber message delivery network, said plurality of subscriber queues each corresponding to a different subscriber in said wireless carrier's subscriber message delivery network;

means for individually assigning each of said plurality of subscriber queues a maximum number of short messages that said plurality of said subscriber

queues can store ~~based on historical short message usage of each relevant subscriber~~
~~queue~~;

means for automatically deleting messages from said subscriber queues
when said maximum number is exceeded in order to make room in said subscriber
database for other messages; and

means for communicating said short message to said wireless carrier's
subscriber message delivery network utilizing at least one of an RMI communication
channel and an SMPP communication channel.

24-25. (canceled)

26. (previously presented) The apparatus for message distribution
according to claim 23, wherein:

each of said plurality of subscriber queues operates in a first in-first out
fashion.

27. (previously presented) The apparatus for message distribution
according to claim 23, further comprising:

placing a predetermined maximum number of short messages in each of
said plurality of subscriber queues.

28. (previously presented) The apparatus for message distribution
according to claim 23, wherein:

said wireless carrier's subscriber message delivery network is a wireless
intelligent network (WIN).